

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 03/10856

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01S5/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 526 071 B1 (CHAPMAN WILLIAM B ET AL) 25 February 2003 (2003-02-25) cited in the application	17,22
A	abstract; figures 6a-6f column 11, lines 42-50	1-3,5-16
X	US 2003/142702 A1 (CARNEY ROBERT ET AL) 31 July 2003 (2003-07-31)	17
A	the whole document	1
X	US 2003/012230 A1 (MCDONALD MARK ET AL) 16 January 2003 (2003-01-16)	17
A	cited in the application figures 2,3	1-3,5-16
A	US 2002/054614 A1 (JIN HONG) 9 May 2002 (2002-05-09)	1,17
	figures 1,3	
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

19 July 2004

Date of mailing of the international search report

02/08/2004

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 215 928 B1 (FRIESEM ASHER A ET AL) 10 April 2001 (2001-04-10) cited in the application the whole document -----	1, 12-14, 17

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Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 4, 21, 23, 24
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 4,21,23,24

These claims relate to a frequency accuracy "delta nu" in relation to a "Smin" spacing of cavity modes of the external cavity. these claims cannot be searched for the following reasons:

- 1) From the claims it is not clear which technical features are exactly meant with "delta nu" and "Smin". Even after close consultation of the description, the Search Authority is not able to define precisely the technical features related to said definitions. Moreover in dependent claim 21 reference is made to "Smin" without prior definition".
- 2) even if "delta nu" were a well defined technical feature, it would NOT be possible to determine, without putting an unreasonable burden on the Search Authority, which prior art devices and methodes have frequency uncertainties falling within the scope of the proposed claims.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/10856

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6526071	B1	25-02-2003	US 6282215 B1	28-08-2001
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			AU 6432399 A	08-05-2000
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			WO 0024095 A1	27-04-2000
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			EP 1410476 A2	21-04-2004
			WO 03005512 A2	16-01-2003
			US 2003142700 A1	31-07-2003
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			US 2003138003 A1	24-07-2003
US 2003012230	A1	16-01-2003	WO 03077386 A1	18-09-2003
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			WO 9744686 A2	27-11-1997
			IL 126817 A	23-12-2001
			JP 3527513 B2	17-05-2004
			JP 2000514566 T	31-10-2000